

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/S26, 816
Source: IFWD
Date Processed by STIC: 07/10/2006

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 07/10/2006

PATENT APPLICATION: US/10/526,816

TIME: 09:51:04

Input Set : F:\70292.011000.ST25.txt

Output Set: N:\CRF4\07102006\J526816.raw

3 <110> APPLICANT: Anwar, Azlinda
 4 August, Thomas
 5 Too, Heng-Phon
 7 <120> TITLE OF INVENTION: Strand-Specific Detection and Quantification
 9 <130> FILE REFERENCE: 70292-011000
 11 <140> CURRENT APPLICATION NUMBER: 10/526,816
 C--> 12 <141> CURRENT FILING DATE: 2005-03-04
 14 <160> NUMBER OF SEQ ID NOS: 29
 16 <170> SOFTWARE: PatentIn version 3.3
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 18
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Artificial
 23 <220> FEATURE:
 24 <223> OTHER INFORMATION: Reverse primer (ActinS) used in comparative PCR experiment.
 26 <400> SEQUENCE: 1
 27 gagacaacat tggcatgg 18
 30 <210> SEQ ID NO: 2
 31 <211> LENGTH: 25
 32 <212> TYPE: DNA
 33 <213> ORGANISM: Artificial
 35 <220> FEATURE:
 36 <223> OTHER INFORMATION: Oligonucleotide utilized in reverse transcription reaction of
 37 beta-actin transcripts.
 39 <400> SEQUENCE: 2
 40 acagcacact ttgtagagac ctggg 25
 43 <210> SEQ ID NO: 3
 44 <211> LENGTH: 34
 45 <212> TYPE: DNA
 46 <213> ORGANISM: Artificial
 48 <220> FEATURE:
 49 <223> OTHER INFORMATION: Exemplary stem-loop chimeric oligonucleotide designed to have
 a
 50 stable stem-loop secondary structure under transcription reaction
 51 conditions.
 53 <400> SEQUENCE: 3
 54 tctacaaaga cagcacactt tgtagagacc tggg 34
 57 <210> SEQ ID NO: 4
 58 <211> LENGTH: 19
 59 <212> TYPE: DNA
 60 <213> ORGANISM: Artificial
 62 <220> FEATURE:
 63 <223> OTHER INFORMATION: Exemplary forward hemi-nested primer utilized in comparative
 PCT

64 experiment.

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66 <400> SEQUENCE: 4
67 agcacacttt gtagagacc 19
70 <210> SEQ ID NO: 5
71 <211> LENGTH: 30
72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Exemplary stem-loop chimeric RT oligonucleotides (SCRO) made
in
77 accordance with the teachings of the invention.
79 <400> SEQUENCE: 5
80 tcaccgttcc cgcgcgtcgg tgggcgctac 30
83 <210> SEQ ID NO: 6
84 <211> LENGTH: 19
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Exemplary basis for designing exemplary PCR primer, based on
Den
90 2 genome.
92 <400> SEQUENCE: 6
93 tgaaacgcga gagaaaccg 19
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 12
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Intermediate sequence based on SEQ.ID.NO.6 used for
exemplary
103 primer design.
105 <400> SEQUENCE: 7
106 tgaaacgcga ga 12
109 <210> SEQ ID NO: 8
110 <211> LENGTH: 10
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Sequence based upon SEQ.ID.NO.7 used in exemplary primer
design.
117 <400> SEQUENCE: 8
118 tgaaacgcga 10
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 13
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial
126 <220> FEATURE:
127 <223> OTHER INFORMATION: DNA sequence of SEQ.ID.NO.8 having GAA added to the 3' end,
thus
128 raising the Tm.
130 <400> SEQUENCE: 9
131 tgaaacgcga gaa 13
134 <210> SEQ ID NO: 10
135 <211> LENGTH: 17

136 <212> TYPE: DNA

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137 <213> ORGANISM: Artificial

139 <220> FEATURE:

140 <223> OTHER INFORMATION: Exemplary hemi-nested PCR primer having 3' protruding
portion and

141 4 Gs added to the 5' end of the sequence provided in SEQ.ID.NO.9.

143 <400> SEQUENCE: 10

144 ggggtgaaac gcgagaa 17

147 <210> SEQ ID NO: 11

148 <211> LENGTH: 14

149 <212> TYPE: DNA

150 <213> ORGANISM: Artificial

152 <220> FEATURE:

153 <223> OTHER INFORMATION: Exemplary SCRO sequence.

155 <400> SEQUENCE: 11

156 ggggtgaaac gcga 14

159 <210> SEQ ID NO: 12

160 <211> LENGTH: 6

161 <212> TYPE: DNA

162 <213> ORGANISM: Artificial

164 <220> FEATURE:

165 <223> OTHER INFORMATION: Deleted portion of SEQ.ID.NO.5 providing another exemplary
convertible oligonucleotide SEQ.ID.NO.28.

168 <400> SEQUENCE: 12

169 tcaccg 6

172 <210> SEQ ID NO: 13

173 <211> LENGTH: 18

174 <212> TYPE: DNA

175 <213> ORGANISM: Artificial

177 <220> FEATURE:

178 <223> OTHER INFORMATION: Forward primer for amplifying Dengue 2 NS2A region.

180 <400> SEQUENCE: 13

181 ggacatgggc agattgac 18

184 <210> SEQ ID NO: 14

185 <211> LENGTH: 18

186 <212> TYPE: DNA

187 <213> ORGANISM: Artificial

189 <220> FEATURE:

190 <223> OTHER INFORMATION: Reverse primer for amplifying Dengue 2 NS2A region.

192 <400> SEQUENCE: 14

193 tccttttctt gttggttc 18

196 <210> SEQ ID NO: 15

197 <211> LENGTH: 21

198 <212> TYPE: DNA

199 <213> ORGANISM: Artificial

201 <220> FEATURE:

202 <223> OTHER INFORMATION: Forward primer directed to envelope region of Dengue genome.

204 <400> SEQUENCE: 15

205 aggatgggga aatgatgtg g 21

208 <210> SEQ ID NO: 16

209 <211> LENGTH: 21

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210 <212> TYPE: DNA
 211 <213> ORGANISM: Artificial
 213 <220> FEATURE:
 214 <223> OTHER INFORMATION: Reverse primer directed to envelope region of Dengue genome.
 216 <400> SEQUENCE: 16
 217 ttctgtggcc cctgtgagtg c 21
 220 <210> SEQ ID NO: 17
 221 <211> LENGTH: 24
 222 <212> TYPE: DNA
 223 <213> ORGANISM: Artificial
 225 <220> FEATURE:
 226 <223> OTHER INFORMATION: Forward primer to NS2A region of Dengue genomic RNA.
 228 <400> SEQUENCE: 17
 229 acctgggaag agtgatgggtt atgg 24
 232 <210> SEQ ID NO: 18
 233 <211> LENGTH: 24
 234 <212> TYPE: DNA
 235 <213> ORGANISM: Artificial
 237 <220> FEATURE:
 238 <223> OTHER INFORMATION: Reverse primer to NS2A region of Dengue genomic RNA.
 240 <400> SEQUENCE: 18
 241 atggtctctg gtatgggtgct ctgg 24
 244 <210> SEQ ID NO: 19
 245 <211> LENGTH: 18
 246 <212> TYPE: DNA
 247 <213> ORGANISM: Artificial
 249 <220> FEATURE:
 250 <223> OTHER INFORMATION: Exemplary hemi-nested strand-specific PCR primer.
 252 <400> SEQUENCE: 19
 253 cggtcccccgc cgtcggtg 18
 256 <210> SEQ ID NO: 20
 257 <211> LENGTH: 18
 258 <212> TYPE: DNA
 259 <213> ORGANISM: Artificial
 261 <220> FEATURE:
 262 <223> OTHER INFORMATION: Exemplary hemi-nested strand-specific PCR primer.
 264 <400> SEQUENCE: 20
 265 tcaactgcatt tgggacgc 18
 268 <210> SEQ ID NO: 21
 269 <211> LENGTH: 20
 270 <212> TYPE: DNA
 271 <213> ORGANISM: Artificial
 273 <220> FEATURE:
 274 <223> OTHER INFORMATION: Forward primer to actin transcript.
 276 <400> SEQUENCE: 21
 277 acaacggctc cgcatgtgc 20
 280 <210> SEQ ID NO: 22
 281 <211> LENGTH: 20
 282 <212> TYPE: DNA

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283 <213> ORGANISM: Artificial
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Reverse primer to actin transcript.
288 <400> SEQUENCE: 22
289 ggtcatcttt tcacggttgg                                20
292 <210> SEQ ID NO: 23
293 <211> LENGTH: 12
294 <212> TYPE: DNA
295 <213> ORGANISM: Artificial
297 <220> FEATURE:
298 <223> OTHER INFORMATION: Portion of SEQ.ID.NO.5 complementary to the negative
replicative
299      strand of Dengue.
301 <400> SEQUENCE: 23
302 ggtgggcgct ac                                          12
305 <210> SEQ ID NO: 24
306 <211> LENGTH: 11
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Portion of another exemplary SCRO, complementary to the
positive
312      replicative strand of RSV.
314 <400> SEQUENCE: 24
315 cacggtgaca c                                          11
318 <210> SEQ ID NO: 25
319 <211> LENGTH: 21
320 <212> TYPE: DNA
321 <213> ORGANISM: Artificial
323 <220> FEATURE:
324 <223> OTHER INFORMATION: RSV MP2-specific sense primer.
326 <400> SEQUENCE: 25
327 ctcttggtat agttggagtg c                              21
330 <210> SEQ ID NO: 26
331 <211> LENGTH: 21
332 <212> TYPE: DNA
333 <213> ORGANISM: Artificial
335 <220> FEATURE:
336 <223> OTHER INFORMATION: RSV antisense primer.
338 <400> SEQUENCE: 26
339 tcaccgttcc cgcgcgtcca c                              21
342 <210> SEQ ID NO: 27
343 <211> LENGTH: 21
344 <212> TYPE: DNA
345 <213> ORGANISM: Artificial
347 <220> FEATURE:
348 <223> OTHER INFORMATION: RSV MP2-specific antisense primer.
350 <400> SEQUENCE: 27
351 ttggagaaat tgttgagtgg c                              21
354 <210> SEQ ID NO: 28
355 <211> LENGTH: 24

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/10/2006
PATENT APPLICATION: US/10/526,816 TIME: 09:51:05

Input Set : F:\70292.011000.ST25.txt
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/526,816

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Input Set : F:\70292.011000.ST25.txt

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date